

Material Safety Data Sheet

WHMIS  	Protective Clothing    	TDG Road/Rail  
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SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

Product name: Ro-Tyme Professional Drain Opener (US) **Effective Date:** 10/22/98 **Code No.:** 7000751, 7000755
Product use: Consumer products: Drain Cleaner
WHMIS: WHMIS CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC)
 WHMIS CLASS E: Corrosive liquid.
TDG: TDG CLASS 8: Corrosive liquid.
 TDG CLASS 9.2: Environmentally hazardous material.
 Sulfuric acid 1830 II

Manufacturer: ROOT INDUSTRIES INC.
 3700 WESTON ROAD
 NORTH YORK, ONT. M9L 2Z4 (416) 746-3700
Supplier: ROOT INDUSTRIES INC.
 3700 WESTON ROAD
 NORTH YORK, ONTARIO M9L 2Z4
 (416) 746-3700

EMERGENCY PHONE : CANUTEC (613) 996-6666

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	Wt%	ACGIH-TLV	LC ₅₀ /LD ₅₀
Sulfuric acid	7664-93-9	90-100	Not available.	ORAL (LD50) mg/kg: Acute: 2140 (Rat.). VAPOR (LC50)ppm : Acute: 255 (Rat.) (4 hour(s)).

SECTION III - PHYSICAL DATA

Boiling point:	290°C (554°F)	Specific Gravity:	1.84 (Water = 1)
Vapour Pressure:	The highest known value is 0.01 mm of Hg (@ 20°C) (Sulfuric acid).	Vapor Density:	The highest known value is 3.4 (Air = 1) (Sulfuric acid).
Solubility in Water:	Soluble	Percent Volatile:	Not available.
Physical State:	Liquid.	Evaporation Rate:	Not available
Appearance and Odour:	Brown. Pungent.	pH (as supplied):	<1.00
		Viscosity:	Water thin

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Non-flammable.
Flash Points: Not applicable.
Flammable Limits: Not applicable
Hazardous Combustion Products: sulfur oxides (SO₂, SO₃...)
Means of Extinction: Use extinguishing media suitable for surrounding materials.
Special Fire Hazards: Not available.

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SECTION V - REACTIVITY DATA

Stability:	The product is stable.
Incompatibility:	Extremely reactive or incompatible with reducing agents, organic materials, metals, alkalis, moisture. Very slightly to slightly reactive with oxidizing agents.
Hazardous Decomposition Products:	Not available.

SECTION VI - TOXICOLOGICAL PROPERTIES

Routes of Entry	Ingestion. Skin contact. Inhalation. Eye contact
Acute Effects on Humans:	Extremely dangerous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion. Slightly dangerous to dangerous in case of inhalation. Very slightly to slightly dangerous in case of skin contact (sensitizer). Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Chronic Effects on Humans:	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. The substance is toxic to blood, kidneys, liver. Toxicity of the product to the reproductive system: Not available. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs
Synergistic Materials:	Not available.

SECTION VII - PREVENTIVE MEASURES

Gloves:	Gloves (impervious).
Eye Protection:	Splash goggles.
Respiratory Protection:	Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Other Protective Equipment:	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.
Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Leak and Spill Procedure:	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.
Waste Disposal:	Recycle, if possible. Consult your local or regional authorities.
Storage Requirements:	May corrode metallic surfaces. Store in a metallic or coated fibreboard drum using a strong polyethylene inner package. Corrosive materials should be stored in a separate safety storage cabinet or room.

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SECTION VIII - FIRST AID

Eye:	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.
Skin:	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation:	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion:	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

SECTION IX - OTHER INFORMATION

References Not available.

Additional remarks: No additional remark.

Validated by Root Industries Inc. on 10/22/98.

Verified by Ron Goltz.

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